

### CLAIMS

What is Claimed is:

- 5     1.     Waterborne cathodic electrodeposition (CED) coating agents comprising resin solids and optionally pigments, fillers, organic solvents and conventional coating additives, wherein said CED coating agents comprise at least one bismuth salt selected from the group consisting of bismuth hydroxycarboxylic acid salts and bismuth sulfonic acid salts in a quantity of  
10     0.1 to 2.5 wt-%, calculated as bismuth and relative to resin solids content, together with at least one compound selected from the group consisting of yttrium and neodymium compounds in a quantity of 0.1 to 1 wt-%, calculated as metal and based on resin solids content.
- 15     2.     The CED coating agents of claim 1, wherein the bismuth hydroxycarboxylic acid salts are selected from the group consisting of bismuth lactate and bismuth dimethylolpropionate and the bismuth sulfonic acid salts are selected from the group consisting of bismuth amidosulfonate and bismuth hydrocarbylsulfonates.
- 20     3.     The CED coating agents of claim 1, wherein the proportion of the at least one bismuth salt is 0.5 to 2 wt-%, calculated as bismuth and relative to resin solids content.
- 25     4.     The CED coating agents of claim 1, wherein the yttrium and neodymium compounds comprise salts selected from the group consisting of yttrium sulfate, yttrium nitrate, carboxylic acid salts of yttrium, hydrocarbylsulfonates of yttrium, neodymium sulfate, neodymium nitrate, carboxylic acid salts of neodymium and hydrocarbylsulfonates of neodymium.
- 30     5.     The CED coating agents of claim 1, wherein the proportion of the at least one compound selected from the group consisting of yttrium and

neodymium compounds is 0.15 to 0.5 wt-%, calculated as metal and relative to resin solids content.

6. A process for cathodic electrodeposition coating of electrically  
5 conductive substrates using a CED coating agent of claim 1.
7. A process according to claim 6, wherein the substrates comprise  
substrates selected from the group consisting of automotive bodies and body  
parts.  
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8. Substrates cathodically electrodeposition coated using a process of  
claim 6.
9. A process for forming the CED coating agents according to claim 1  
15 which comprises adding at least one bismuth salt selected from the group  
consisting of bismuth hydroxycarboxylic acid salts and bismuth sulfonic acid  
salts and at least one compound selected from the group of yttrium and  
neodymium compounds to (CED) coating agents comprising resin solids, and  
optionally, pigments, fillers, organic solvents and conventional coating  
20 additives.